Tobacco Institute Testing Laboratory

Market Sample 31
Test Report

"Tar", "Nicotine", and Carbon Monoxide Values

May 5, 1989

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
*Alpine KFMSP	17	1.1	16
American Lights KFSP		0.9	13
American Lights 100's 100FSP		1.1	14
Belair KFMSP		0.8	10
Belair 100's 100FMSP		0.7	9
Benson & Hedges KFHP		1.3	13
*Benson & Hedges 100's 100FHP		1.2	17
*Benson & Hedges 100's 100FMHP		1.2	17
*Benson & Hedges 100's 100FSP		1.2	16
*Benson & Hedges 100's 100FMSP		1,2	16
Benson & Hedges Deluxe Ultra Lights 100's 100FHP		. 0.4	6
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP.		0.5	6
Benson & Hedges Lights 100's 100FSP		0.8	13
Benson & Hedges Lights 100's 100FMSP		8.0	12
Benson & Hedges Multifilter KFSP	11	0.8	11
Bright 100s 100FMSP		0.4	10
Cambridge Full Flavor KFSP	17	1.1	16
Cambridge Full Flavor 100's 100FSP	17	1.2	16
Cambridge Lights KFSP	12	0.8	13
Cambridge Lights KFMSP	12	0.8	12
Cambridge Lights 100's 100FSP	12	0.9	15
Cambridge Lights 100's 100FMSP	12	0.9	15
Cambridge Ultra Low Tar 100's 100FSP	5	0.4	7
Camel RNFSP	22	1,4	14
Camel Filters KFHP	17	1.1	17
Camel Filters KFSP	16	1	15
Camel Filters 100's 100FSP		1.1	19
Camel Lights KFHP	10	0.6	12
Camel Lights KFSP	9	0.6	11
Camel Lights 100's 100FSP		0.8	15
Capri 100FHP	9	0.8	6
Capri 100FMHP		0.7	6
Carlton KFHP		0	0
Carlton KFSP		0.1	2
Carlton KFMSP	1	0.1	1
Carlton 100's 100FHP.		0.1	1
Carlton 100's 100FMHP		0.1	1
Carlton 100's 100FSP	3	0.3	5
Carlton 100's 100FMSP		0.4	6
Carlton 120's 120FSP	6	0.6	6
Carlton 120's 120FMSP	6	0.6	5
Century 25's (25) KFSP	15	1	18
Century 25's 100's 100FSP	18	1.1	21
Century 25's Lights (25) KFSP		0.7	12
Century 25's Lights 100's 100FSP		0.9	13

^{*}Retested brand

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Century 25's Menthol Lights 100's 100FMSP		0.8	13
Chesterfield RNFSP		1.3	13
Chesterfield KNFSP	24	1.6	15
Doral Full Flavor KFSP		0.9	20
Doral Full Flavor 100's 100FSP	15	0.8	17
Doral Lights KFSP	12	0.7	15
Doral Menthol Lights KFMSP	12	0.6	14
Doral Lights 100's 100FSP	11	0.7	13
Doral Menthol Lights 100's 100FMSP		0.7	14
Doral Ultra Lights 100's 100FSP	7	0.5	12
English Ovals KNFHP		1.9	16
Eve Slim Lights 100's 100FHP		1	11
Eve Slim Lights 100's 100FMHP		1	11
Eve Lights 120's 120FHP		1.1	12
Eve Lights 120's 120FMHP		1.2	12
Falcon Lights KFSP		0.8	11
Falcon Lights KFMSP		0.8	12
Falcon Lights 100's 100FSP		0.9	15
Falcon Lights 100's 100FMSP		0.7	11
Harley Davidson KFSP		1	16
Herbert Tareyton KNFSP		1.6	18
Kent Golden Lights KFHP		0.8	10
Kent Golden Lights KFSP		0.7	10
Kent Golden Lights KFMSP		0.8	9
		0.9	11
Kent Golden Lights 100s 100FHP		0.9	11
Kent Golden Lights 100s 100FSP		0.8	10
Kent Golden Lights 100s 100FMSP		=	13
Kent KFHP		0.9	13
Kent KFSP		0.9	
Kent 100s 100FSP		1	15
Kent 100s 100FMSP		1	14
Kent III KFSP		0.3	4
Kent III 100s 100FHP		0.5	7
Kent III 100s 100FSP		0.4	7
Kool RNFMSP		1.4	14
Kool KFMHP	16	1.1	16
Kool KFMSP	17	1.1	17
Kool Super Longs 100's 100FMSP	17	1.2	17
Kool Lights KFMSP	8	0.7	9
Kool Lights 100's 100FMSP	9	0.7	10
Kool Milds KFMHP	12	0.9	11
Kool Milds KFMSP		0.9	13
Kool Milds 100's 100FMSP		1	13
Kool Ultra KFMSP		0.2	3
Kool Ultra 100's 100FMSP		0.4	5
L & M KFSP		1.1	13
L & M Super 100 100FSP		1.1	14
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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
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L & M Long Lights 100FSP	8	0.8	6
L & M 30's Lights 100's 100FSP		1.1	11
Lark KFSP		1.1	13
Lark 100FSP	15	1.2	14
Lark Lights KFSP		1	13
Lark Light 100's 100FSP		1.1	15
Lucky Strike RNFSP		1.5	16
Lucky Strike KFHP	12	0.9	13
Lucky Strike KFSP	12	0.9	13
Lucky Strike Filters 100's 100FSP	12	1	13
Lucky Strike Menthol 100's 100FMSP	12	1	12
Lucky Strike Lights KFSP	8	0.7	10
Lucky Strike Lights 100's 100FSP	9	0.7	10
Magna KFHP	14	0.9	16
Magna KFSP	14	0.9	15
Magna Lites KFSP	9	0.6	14
Malibu Filters KFSP		1.2	14
Malibu Menthol KFMSP	17	1.2	15
Malibu 100's 100FSP	14	1.1	13
Malibu Menthol 100's 100FMSP	12	0.9	13
Malibu Lights KFSP	10	0.8	11
Malibu Lights 100's 100FSP		0.8	11
Mariboro KFHP	17	1.1	15
Marlboro KFSP		1.2	17
*Marlboro KFMSP		1.2	15
Marlboro 100's 100FHP		1.2	17
Marlboro 100's 100FSP	17	1.2	16
Marlboro 25's KFSP		1.1	16
Marlboro Lights KFHP		0.8	12
Marlboro Lights KFMHP		0.8	11
Marlboro Lights KFSP		0.8	12
Marlboro Lights KFMSP		0.8	10
Marlboro Lights 100's 100FHP		0.8	12
Marlboro Lights 100's 100FHMP		0.8	11
Marlboro Lights 100's 100FSP		0.8	13
Marlboro Lights 100's 100FMSP		0.9	12
Marlboro Lights 25's KFSP		0.8	12
Mariboro 100's Red 100FHP		1.2	16
Marlboro 100's Red 100FSP		1.2	17
Max 120s 120FSP		1.3	18
Max 120s 120FMSP	******************	1.4	17
Merit KFHP		0.6	10
Merit KFSP		0.6	10
Merit KFMSP		0.6	10
Merit 100's 100FSP	0 10	0.0 0.8	
WALLE TOO 8 TOO TO THE TANKS TO TOO IN THE TANKS THE TAN	10	0.8	12

^{*}Retested brand

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Merit 100's 100FMSP		0.8	12
Merit Ultra Lights KFSP	4	0.4	6
Merit Ultra Lights KFMSP	5	0.4	6
Merit Ultra Lights 100's 100FSP	5	0.5	7
Merit Ultra Lights 100's 100FMSP	6	0.5	8
More 120s 120FSP		1.2	22
More 120s 120FMSP	17	1.3	22
More Lights 100s 100FHP	10	8.0	11
More Lights 100s 100FMHP		0.7	10
More Lights 120s 120FSP	13	1	20
More Lights 120s 120FMSP		1	20
Newport KFMHP		1.2	16
Newport KFMSP	17	1.3	18
Newport 100's 100FMHP		1.5	19
Newport 100's 100FMSP		1.5	19
Newport 25's KFMSP		1.3	18
Newport 25's 100FMSP		1.5	20
Newport Lights KFMHP		0.7	10
Newport Lights KFMSP		0.7	9
Newport Lights 100's 100FMHP		0.8	10
Newport Lights 100's 100FMSP		0.8	10
Newport Stripes 100FHP		0.9	17
Newport Stripes 100FMHP		0.9	16
Newport Stripes Slim Lights 100FMHP		0.8	11
Now KFHP		0	0
Now KFSP		0.1	2
Now KFMSP		0.1	2
Now 100s 100FHP		0	ō
Now 100s 100FSP		0.2	3
Now 100s 100FMSP		0.3	4
Old Gold Straights KNFSP		1.9	19
Old Gold Filters KFSP		1.2	18
		1.5	20
Old Gold Filter 100's 100FSP		0.8	11
Old Gold Lights KFSP		0.9	17
Old Gold Lights 100s 100FSP		1.6	17
Pall Mall KNFSP			17
Pall Mall 25's KNFSP		1.6	**
Pall Mall 100's 100FSP		1.3	17
Pall Mall Lights 100's 100FSP		0.8	12
Pall Mall Light 100's Low Tar 100FMSP		1.1	13
Pall Mall Red Filters KFSP		1	13
Pall Mall Red Filters 100's 100FSP		1.1	14
Pall Mall Red Lights KFSP		0.8	11
Pall Mall Red Lights 100's 100FSP		0.9	12
Parliament Lights KFHP		0.7	10
Parliament Lights KFSP		0.7	10
Parliament Lights 100's 100FSP	12	0.9	13

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
DEANU	1115/015		72.6/ CAS
Philip Morris Commander KNFSP	26	1.6	16
Philip Morris International 100FHP		1.1	16
Philip Morris International 100FMHP		1.1	16
Players RNFHP		1.7	16
Players KFHP		0.8	12
Players KFMHP		0.8	12
Players 100's 100FHP		1	13
Players 100's 100FMHP		1	13
Players Lights 25's KFSP		0.7	11
Players Lights 25's KFMSP		0.7	11
Players 25's Lights 100's 100FSP		0.9	14
Players 25's Lights 100's 100FMSP		0.8	14
Raleigh KNFSP		1.4	17
Raleigh KFSP		1.4	15
		1	15 16
Raleigh 100's 100FSP		==	
Raleigh Lights KFSP		0.9	13
Raleigh Lights 100's 100FSP	IZ	0.9	14
Richland 20's KFSP		1.1	16
Richland 20's KFMSP		1	16
Richland 20's 100's 100FSP	17	1.2	17
Richland 20's Menthol 100's 100FMSP		1.2	17
Richland 20's Lights KFSP	12	0.9	13
Richland 20's Lights 100's 100FSP		0.9	14
Richland (25) KFSP		1.2	16
Richland (25) KFMSP		1.1	16
Richland 100's (25) 100FSP		1.3	17
Richland 100's (25) 100FMSP	16	1.2	16
Richland Lights (25) KFSP	12	0.9	13
Richland Lights (25) 100's 100FSP	12	0.9	14
Ritz 100 100FHP	10	0.8	11
Ritz 100 100FMHP	11	8.0	12
Salem KFMSP	16	1	17
Salem 100's 100FMSP		1.2	16
Salem Lights KFMSP		0.7	13
Salem Lights 100's 100FMHP		0.9	12
Salem Lights 100's 100FMSP		0.7	11
Salem Slim Lights 100's 100FMHP		0.8	10
Salem Ultra Lights KFMSP		0.4	8
Salem Ultra Lights 100's 100FMSP		0.4	8
Saratoga 120's 120PHP		1.1	15
Saratoga 120's 120FMHP		1.1	15 -
Satin 100FSP		1.1	13
Satin 100FMSP		1	13
Silva Thins Filters 100FHP	12		==
		1	13
Silva Thins Menthol 100FMHP.		0.9	12
Silva Thirs 100FSP		1	10
Silva Thins Menthol 100FMSP	12	1.1	10

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Spring 100's 100FMSP	10	1.5	19
Tall 120s 120FSP		1.6	20
Tall 120s 120FMSP		1.6	16
Tareyton KFSP		1	16
Tareyton 100's 100FSP		$\overline{1}$	17
Tareyton Lights KFSP		0.4	6
Tareyton Long Lights 100FSP		0.7	9
Triumph KFSP		0.3	4
Triumph KFMSP		0.3	4
Triumph 100s 100FSP		0.5	7
Triumph 100s 100FMSP		0.5	8
True KFSP		0.5	6
True KFMSP		0.5	6
True 100's 100FSP		0.6	7
True 100's 100FMSP		0.6	7
Vantage KFSP		0.8	13
Vantage KFMSP		0.7	13
Vantage 100s 100FSP		0.6	13
Vantage Menthol 100s 100FMSP		0.6	13
Vantage Ultra Lights KFSP		0.5	8
Vantage Ultra Lights 100s 100FSP		0.5	9
Viceroy KFSP		1	15
Viceroy Super Long 100's 100FSP		1.1	15
Viceroy Lights KFSP		0.9	13
Viceroy Lights 100's 100FSP		0.9	14
Virginia Slims 100FSP		1.1	14
Virginia Slims 100FMSP		1.1	14
Virginia Slims Lights 100FHP		0.7	9
Virginia Slims Lights 100FMHP		0.7	9
*Virginia Slims Lights 120's 120FHP		1.1	15
*Virginia Slims Lights 120's 120FMHP		1.1	15
Winston KFHP		1.1	17
Winston KFSP		1.1	16
Winston 100's 100FSP		1.1	19
Winston Lights KFHP		0.6	12
Winston Lights KFSP		0.8	13
Winston Lights 100's 100FHP	10	0.7	12
Winston Lights 100's 100FSP		0.8	13
Winston Ultra Lights KFSP		0.5	8
Winston Ultra Lights 100's 100FSP		0.5	9
Craven "A" KFHP		1.2	16
Craven "A" Filter Standard Size RFHP		1.5	14
Dunhill International 100FHP.		1.4	18
Dunhill Menthol 100FMHP		1.2	17
Dunhill Menthol Mild 100FMHP		1	13

^{*}Retested brand

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
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Dunhill International Superior Mild 100FHP	8	0.7	10
Rothmans KFHP	19	1.3	23
Rothmans Special Mild KFHP		1	16
St. Moritz Filter 100s 100FSP	15	1.1	16
St. Moritz Menthol 100FMSP		1	17

Tobacco Institute Testing Laboratory Market Sample 31 Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
*Alpine KFMSP		1.14±0.02	16.5 ± 0.2
Benson & Hedges KFHP		1.26 ± 0.02	12.6 ± 0.3
*Benson & Hedges 100's 100FHP		1.20 ± 0.03	17.0 ± 0.4
*Benson & Hedges 100's 100FMHP		1.22 ± 0.01	17.2 ± 0.3
*Benson & Hedges 100's 100FSP		1.22 ± 0.02	16.4 ± 0.4
*Benson & Hedges 100's 100FMSP		1.20 ± 0.02	16.4±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FH		0.44 ± 0.02	6.2 ± 0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FM		0.47 ± 0.01	6.2±0.2
Benson & Hedges Lights 100's 100FSP		0.83 ± 0.02	13.0±0.3
Benson & Hedges Lights 100's 100FMSP		0.81 ± 0.02	12.0 ± 0.2
Benson & Hedges Multifilter KFSP		0.85 ± 0.02	10.8 ± 0.2
Cambridge Full Flavor KFSP		1.09 ± 0.01	16.1 ± 0.3
Cambridge Full Flavor 100's 100FSP		1.17 ± 0.02	16.0 ± 0.3
Cambridge Lights KFSP	12.3 \pm 0.2	0.85 ± 0.01	12.7 ± 0.3
Cambridge Lights KFMSP		0.84 ± 0.02	12.1 ± 0.3
Cambridge Lights 100's 100FSP		0.87 ± 0.02	14.5 ± 0.4
Cambridge Lights 100's 100FMSP		0.86 ± 0.01	14.6 ± 0.4
Cambridge Ultra Low Tar 100's 100FSP	4.7±0.2	0.41 ± 0.01	6.6 ± 0.3
English Ovals KNFHP	23.8±0.6	1.87 ± 0.04	15.6±0.5
Marlboro KFHP		1.14 ± 0.02	15.2±0.3
Marlboro KFSP	17.4±0.2	1.17 ± 0.02	16.9 ± 0.4
*Marlboro KFMSP	17.1±0.3	1.18 ± 0.01	15.3±0.2
Marlboro 100's 100FHP		1.22±0.03	16.9±0.6
Marlboro 100's 100FSP		1.22 ± 0.02	16.5±0.4
Marlboro 25's KFSP		1.13 ± 0.02	15.9±0.3
Marlboro Lights KFHP		0.82 ± 0.02	12.4±0.3
Marlboro Lights KFMHP		0.78 ± 0.02	11.2±0.3
Marlboro Lights KFSP		0.83 ± 0.02	12.2±0.3
Marlboro Lights KFMSP		0.77 ± 0.01	10.4 ± 0.3
Marlboro Lights 100's 100FHP	10.8±0.2	0.85 ± 0.02	12.3±0.3
Marlboro Lights 100's 100FHMP		0.81 ± 0.02	11.2±0.4
Marlboro Lights 100's 100FSP		0.85 ± 0.02	13.0±0.4
Marlboro Lights 100's 100FMSP		0.86 ± 0.01	12.0±0.3
Marlboro Lights 25's KFSP		0.80 ± 0.02	12.4±0.3
Marlboro 100's Red 100FHP		1.19 ± 0.02	16.3±0.4
Marlboro 100's Red 100FSP		1.19 ± 0.02	17.0 ± 0.2
Merit KFHP		0.60 ± 0.01	9.8±0.2
Merit KFSP		0.59±0.01	9.8±0.3
Merit KFMSP		0.58±0.01	10.0±0.3
Mcrit 100's 100FSP		0.80 ± 0.02	11.8±0.3
Merit 100's 100FMSP	10.0 ± 0.2	0.78 ± 0.02	12.0±0.3
Merit Ultra Lights KFSP	4 A + N 2	0.78 ± 0.02 0.43 ± 0.01	5.5±0.2
Merit Ultra Lights KFMSP	45+01	0.42±0.01	5.9±0.2
Merit Ultra Lights 100's 100FSP		0.42 ± 0.01 0.50 ± 0.01	7.4±0.2
Merit Ultra Lights 100's 100FSP	L.VIC.L	0.50±0.01 0.53±0.02	7.4±0.2 8.2±0.3
work outs pigns 100 2 100LMOL	0.V±U.4	U.33±U.UZ	0.4±V.3

^{*}Retested brand

Tobacco Institute Testing Laboratory Market Sample 31 Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Parliament Lights KFHP	9.5±0.2	0.72 ± 0.02	10.3 ± 0.4
Parliament Lights KFSP		0.71 ± 0.02	10.4 ± 0.2
Parliament Lights 100's 100FSP	12.0±0.2	0.95 ± 0.02	12.7 ± 0.2
Philip Morris Commander KNFSP	26.3±0.5	1.61 ± 0.03	16.2 ± 0.5
Philip Morris International 100FHP	16.8±0.4	1.15 ± 0.02	15.6 ± 0.4
Philip Morris International 100FMHP	16.9±0.2	1.08 ± 0.02	16.2 ± 0.4
Players RNFHP		1.74 ± 0.03	15.9 ± 0.4
Players KFHP		0.83 ± 0.02	12.2 ± 0.2
Players KFMHP		0.82 ± 0.01	12.3 ± 0.2
Players 100's 100FHP	13.9±0.2	0.98 ± 0.02	12.9 ± 0.3
Players 100's 100FMHP	14.0±0.2	0.98 ± 0.02	12.7 ± 0.3
Players Lights 25's KFSP	10.0 \pm 0.2	0.72 ± 0.02	11.1 ± 0.2
Players Lights 25's KFMSP	10.0±0.2	0.71 ± 0.01	11.1 ± 0.4
Players 25's Lights 100's 100FSP	11.9±0.3	0.86 ± 0.02	14.1 ± 0.4
Players 25's Lights 100's 100FMSP	11.4±0.2	0.81 ± 0.01	13.7 ± 0.3
Saratoga 120's 120FHP	14.7±0.2	1.07 ± 0.02	14.8±0.3
Saratoga 120's 120FMHP	14.7±0.3	1.07 ± 0.02	14.8 ± 0.4
Virginia Slims 100FSP	15.3±0.2	1.07 ± 0.02	13.8 ± 0.3
Virginia Slims 100FMSP	15.1±0.3	1.06 ± 0.03	13.9 ± 0.3
Virginia Slims Lights 100FHP	8.8±0.2	0.70 ± 0.02	9.3 ± 0.3
Virginia Slims Lights 100FMHP	8.5±0.2	0.69 ± 0.02	9.2 ± 0.2
*Virginia Slims Lights 120's 120FHP		1.09 ± 0.02	15.2 ± 0.3
*Virginia Slims Lights 120's 120FMHP		1.08 ± 0.01	14.9±0.2

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^{*}Retested brand